



Patent  
Attorney's Docket No. 040071-246

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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JUN 12 2002  
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In re Patent Application of )

Johan NILSSON et al. )

Application No. 09/997,344 )

Filed: November 28, 2001 )

For: Method and Apparatus for Estimation of )  
Phase Offset Between Communication )  
Channels )

Group Art Unit: 2661

Examiner: Unassigned

**INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449  
for the above-identified patent application.

- ☒ [X] No additional fee for submission of an IDS is required.
- ☐ [ ] The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ [ ] A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ [ ] A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ [ ] Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ [ ] A check in the amount of \$\_\_\_\_\_ is enclosed for the fee due.

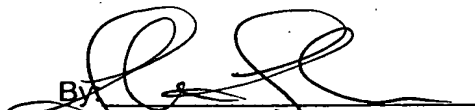
The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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Alexandria, Virginia 22313-1404  
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Date: June 10, 2002

By   
Theodosios Thomas  
Registration No. 45,159



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### INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.


The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or statement is required under 37 C.F.R.

The Examiner's attention is directed to copending application number 09/573,157, naming Johan Nilsson as inventor and filed on September 1, 1999.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

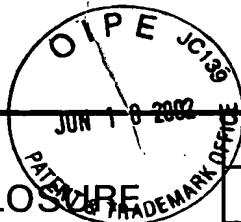
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Alexandria, VA 22313-1404  
Phone: (919) 941-9240

Date: June 10, 2002



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

ATTORNEY'S DKT No.

040071-246

APPLICATION No.

09/997,344

APPLICANT

Johan NILSSON et al.

FILING DATE

November 28, 2001

GROUP

2661

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**U.S. PATENT DOCUMENTS**

Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)
	Number	Kind Code (if known)		
	5 191 598		Bäckström et al.	03-02-1993
	5 583 886		Rohani et al.	12-10-1996
	5 822 380		Bottomley	10-13-1998
	6 069 884		Hayashi et al.	05-30-2000
	09/573,157		Nilsson	05-19-2000

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	no
	58077348		JP	05-10-1983	x	
	58087928		JP	05-25-1983	x	
	1218134		JP	08-31-1989	x	
	4150113		JP	05-22-1992	x	
	5300059		JP	11-12-1993	x	
	95 12927	A1	WO	05-11-1995	x	
	0 881 782	A2	EP	12-02-1998	x	
	09163053		JP(Abstract)	01-22-1999	x	
	0 955 741	A1	EP	11-10-1999	x	
	99 59263	A1	WO	11-18-1999	x	
	0 993 129	A2	EP	04-12-2000	x	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Proakis, John G., "Digital Signaling over a Bandwidth-Constrained Linear Filter Channel, 6.7.2 An Adaptive Channel Estimator", <i>Digital Communication, Second Edition</i> , 1989, pp. 624-627
	"3 <sup>rd</sup> Generation Partnership Project (3GPP); Technical Specification Group Radio Access Network; Physical channels and mapping of transport channels onto physical channels (FDD), 3 G TS 25.211 version 3.3.0, Release 1999, pages 2-42.
	"3 <sup>rd</sup> Generation Partnership Project (3GPP); Technical Specification Group Radio Access Network; Physical layer procedures (FDD), 3 G TS 25.214 version 3.3.0, Release 1999, pages 2-44.
Examiner Signature	Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.